

CLAIMS

1. Oil Filtering device (1) for filtering oil used in rotational devices such as engine and transmission, for incorporation in an in-line oil filtering configuration, the device comprising a filter housing (16) and a lid part (17) of said housing (16), tightening means (10) being provided for pressurised interconnection of said lid (17) and the housing (16), the device (1) comprising an oil inlet port (3) and an oil outlet port (9) in connection with a cylindrical interior space (21) of said filter part (5; 20; 20A-20D), characterised in that the filtering device (1) comprises a micro-filtration filtering means (20) and is provided with a by pass means (25, 28), comprising an aperture provided in a closing member (24), connecting the space in the filter device (1) exterior to the filter part (20, 20A-D) to an interior space (21) of said filter part and comprising a pressure dependent valve means situated in, or connecting to said aperture (28), said valve means at lowest oil pressures being in a closed mode, while changing to an increasing opened position in relation to an increasing actual oil pressure
2. Filter device (1) according to the previous claim, characterised in that the valve means is at least partly incorporated in said aperture (28) of an end face closure means (24).
3. Filter device (1) according to the previous claim, characterised in that the pressure dependent valve means comprises an elastically deformable means, having an internal passage opening up at increasing oil pressure against an internal pressure of the valve material, in particular resisting said elastically deformation with increased force at increased amount of deformation.
4. Filter Device (1) according to any of the preceding claims, characterised in that the device (1) comprises a filter part (5; 20; 20A-20D) of which the radial thickness of its filter means is larger than the radial thickness of its interior space, the axial end faces (20F; 20AF-20DF) of the filter part (5; 20; 20A-20D) being formed by the filtering means of said part, and the device (1) being provided with internal, essentially flattened filter end face (20F; 20AF-20DF) contacting faces (14F, 24F, 16AF, 16BF, 17F), for axially closing a passage of oil, and having a diameter matching that of the filter part (5; 20; 20A-20D).
5. Filter Device (1) according to the preceding claim, characterised in that an oil passage closing face (16AF, 16BF) is integrated in a housing part (16A, 16B, 17).

6. Filter device (1) according to the previous claim, characterised in that an oil passage closing face (16AF, 16BF) is integrated in a housing wall part having a thickness of more than twice the thickness of the majority of the wall part of a relevant unit (16) of the housing (16, 17).
- 5 7. Filter device (1) according to any of the preceding claims, characterised in that the device is at least at one end provided with a separate oil flow closing member (24), contacting an end face of the filter part at one axial end.